

## **ARTICLE IX. ELEVATORS AND CONVEYING SYSTEMS**

### **Sec. 18-159. Adoption of the American Society of Mechanical Engineers Safety Code for Elevators and Escalators; amendments.**

The American Society of Mechanical Engineers Safety Code for Elevators and Escalators, ASME A17.1-2010, is adopted and incorporated in this article by reference as if fully set forth, except as it is amended by the following provisions of this section. Provisions of this article are in addition to the provisions of ASME A17.1-2010. The following provisions coinciding with the provisions of ASME A17.1-2010 supersede, or delete, when indicated, the corresponding provisions of ASME A17.1-2010.

All references within the model codes to any building, electrical, gas, mechanical, plumbing, sewage disposal, elevator, energy conservation, or existing building code shall be construed to be a reference to the respective building, electrical, gas, mechanical, plumbing, sewage disposal, elevator, energy conservation, or existing building code specifically adopted by reference in articles II through XIV of this chapter.

**2.20.1 (b) Aramid fiber ropes constructed in accordance with ASME A17.6, Part 2** is deleted.

**8.6.5.15 Periodic Test Requirements – Category 3** is deleted.

**8.10.1.1.3** The inspector shall meet the qualification requirements of the Authority having Jurisdiction.

**8.10.5.1 Sidewalk Elevators** is deleted.

**8.10.5.3 Hand Elevators** is deleted.

**8.10.5.8 Shipboard Elevators** is deleted.

**8.11.1.1 Persons Authorized to make Periodic Inspections and Test.** The inspector shall meet the qualification requirements of the Authority having Jurisdiction.

**8.11.1.3 Periodic Inspection and Test Frequency.** The frequency of periodic inspection and tests shall be in accordance with Appendix N, Table N-1.

**8.11.5.1 Sidewalk Elevators** is deleted.

**8.11.5.2 Private Residence Elevators** is deleted.

**8.11.5.3 Hand Elevators** is deleted.

**8.11.5.4 Dumbwaiters** is deleted.

**8.11.5.5 Material Lifts and Dumbwaiters with Automatic Transfer Devices** is deleted.

**8.11.5.7 Inclined Elevators** is deleted.

**8.11.5.8 Shipboard Elevators** is deleted.

**8.11.5.9 Screw-Column Elevators** is deleted.

**8.11.5.11 Rack-and-Pinion Elevators** is deleted.

**Appendices:** The following appendix chapters are hereby adopted:

**Appendix N – Inspection and Test Intervals.** Table N-1 is adopted as amended herein.

Table N-1 Required Inspection and Test Intervals in Months							
Reference Section	Equipment Type	Periodic Inspection		Periodic Tests			
		Requirement	Interval	Category 1		Category 5	
				Requirement	Interval	Requirement	Interval
8.11.2	Electric elevators	8.11.2.1	12	8.6.4.19	12	8.6.4.20	60
8.11.3	Hydraulic elevators	8.11.3.1	12	8.6.5.14	12	8.6.5.16	60
8.11.4	Escalators and moving walks	8.11.4.1	12	8.6.8.15	12	N/A	N/A
8.11.5.6	Special purpose personnel elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12	8.6.4.20, 8.6.5.16	60
8.11.5.10	Rooftop elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12	8.6.4.20, 8.6.5.16	60
8.11.5.12	Limited-use/limited-application elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12	8.6.4.20, 8.6.5.16	60
8.11.5.13	Elevators used for construction	8.11.2.1, 8.11.3.1	3	8.6.4.19, 8.6.5.14	12	8.6.4.20, 8.6.5.16	60

(Code of Gen. Ords. 1967, § 9.5(1).1; Ord. No. 52722, 5-8-81; Ord. No. 61386, 8-10-89; Ord. No. 911125, 4-23-92; Ord. No. 010783, 8-23-01; Ord. No. 040477, § 1, 8-12-04; Ord. No. 071193, § 1, 1-3-08; Ord. No. 120375, § 1, 5-24-12)

#### **Sec. 18-160. Adoption of the American Society of Mechanical Engineers Safety Standard for Platform Lifts and Stairway Chair Lifts; amendments.**

The American Society of Mechanical Engineers Safety Standard for Platform Lifts and Stairway Chair Lifts, ASME A18.1- 2011, is adopted and incorporated in this article by reference as if fully set forth, except as it is amended by the following provisions of this section. Provisions of this article are in addition to the provisions of ASME A18.1- 2011. The following provisions coinciding with the provisions of ASME A18.1- 20011 – supersede, or delete, when indicated, the corresponding provisions of ASME A18.1-20011.

All references within the model codes to any building, electrical, gas, mechanical, plumbing, sewage disposal, elevator, energy conservation, or existing building code shall be construed to be a reference to the respective building, electrical, gas, mechanical, plumbing, sewage disposal, elevator, energy conservation, or existing building code specifically adopted by reference in articles II through XIV of this chapter.

**1.1.3 Application.** This Standard applies to new installation only, except Periodic inspection and test in Section 10 shall apply to existing equipment.

**10.1.1 Routine Inspection and Tests** is deleted.

**10.1.4 Qualification of Inspectors.** The inspector shall meet the qualification requirements of the Authority having Jurisdiction.

**10.2.1 Inspection and Test Periods** is deleted.

### **10.3 Periodic Inspection and Test**

**Inspection and test periods.** Applicable inspections and test specified in para. 10.3.1 shall be performed in intervals not longer than 1 year, and the applicable inspections and test specified in para. 10.3.3 shall be made at intervals not longer than 5 years. Periodic inspection shall cover only equipment in sections 2, 3 and 4. Equipment covered in sections 5, 6 and 7 shall not be required to receive Periodic Inspections and Test.

**10.3.2 Three-Year Inspection and Test Requirements** is deleted.

**(Remainder of Section 10.3 remains unchanged.)**

(Ord. 071193, § 1, 1-3-08; Ord. No. 120375, § 1, 5-24-12)

## **Sec. 18-161. Adoption of the American Society of Mechanical Engineers Standard for Elevator Suspension, Compensation, and Governor Systems**

The American Society of Mechanical Engineers Standard for Elevator Suspension Compensation and Governor Systems A17.6-2010, is adopted and incorporated in this article by reference as if fully set forth, except as it is amended by the following provisions of this section. Provisions of this article are in addition to the provisions of ASME A17.6-2010. The following provisions coinciding with provisions of ASME A17.6-2010 supersede, or delete, when indicated, the corresponding provisions of ASME A17.6-2010.

**Part 2 Aramid Fiber Ropes for Elevators** is deleted.

**Secs. 18-162—18-175. Reserved.**

**Sec. 18-176. Adoption of the American Society of Mechanical Engineers Safety Code for Existing Elevators and Escalators; amendments.**

The American Society of Mechanical Engineers Safety Code for Existing Elevators and Escalators, ASME A17.3-2011, is adopted and incorporated in this article by reference as if fully set forth, except as it is amended by the following provisions of this section. Provisions of this article are in addition to the provisions of ASME A17.3-2011. The following provisions coinciding with provisions of ASME A17.3-2011 supersede, or delete, when indicated, the corresponding provisions of ASME A17.3-2011.

**1.1.2 (ii)** Electric freight elevators installed before 1960, and meeting the following criteria, shall be eligible to utilize the specific amendments referencing section 1.1.2 (ii) as specified in this article:

- (1) Speed no greater than 100 feet per minute.
- (2) Travel distance not greater than ten levels.
- (3) Inspected quarterly by a registered elevator service company.
- (4) Operated and ridden by employees only.
- (5) Constant pressure operation.

**1.3.1 (c)** is deleted. (ASME A17.7 compliance option).

**1.3.1 (e)** is deleted. (ASME A17.7 compliance option).

**2.1.3 Projections in Hoistway, Exception:** Freight elevators identified in section 1.1.2 (ii) are exempt from Projections in Hoistway requirements.

**2.6.1 Doors or Gates Required, (b) Freight Elevators, Exception:** Freight elevators identified in section 1.1.2 (ii) shall be permitted to have the hoistway landing guarded to a minimum height of 66 in. (1.56m) above the landing sill.

**3.3.5 Protection of Platforms Against Fire, Exception:** Freight elevators identified in section 1.1.2 (ii) are exempted from protection of platforms against fire.

**3.4.1 Car Enclosures, (b) Freight Elevators, Exception:** Freight elevators identified in section 1.1.2 (ii) may be enclosed to a height of 66 inches, without perforations, except the portion of the enclosure in front and extending six inches on each side of the counterweights shall be without perforations and extend to the full height of the car crosshead or not less than eight feet if there is no crosshead.

**3.4.1 Car Enclosures, (c) Car Tops, Exception:** Freight elevators identified in section 1.1.2 (ii) are exempt from the structural design requirements for car tops.

**3.5.1 Car Safeties, Exception:** Freight elevators identified in section 1.1.2 (ii) employing corner suspension or having multiple guides shall be permitted to be exempt

from the above requirements, provided that the elevator equipment was not originally equipped with safety devices. Existing car safety devices shall be maintained on all cars for which safeties are provided.

**3.5.6 Rail Lubricants and Lubrication Plate** is deleted.

**3.6.2 Governor Ropes, Exception:** Freight elevator identified in section 1.1.2 (ii) shall be permitted to have governor ropes of vegetable fiber, providing they meet the strength and size of the original vegetable fiber rope.

**3.10.3 Top-of-Car Operating Devices, Exception:** Freight elevators identified in section 1.1.2 (ii) are exempt from Top-of-Car Operating Device requirements.

**3.10.10 Absorption of Regenerated Power** is deleted.

**3.11.1 Car Emergency Signaling Devices, Exception:** Freight elevators identified in section 1.1.2 (ii) are exempt from Car Emergency Signaling Devices requirements.

**3.11.1(a), Exception:** Existing elevator installed prior to the adoption of this code that have maintained the following device: A weatherproof audible signaling device with a minimum sound rating of 80 dBA operated from the alarm switch and emergency stop switch inside the car and identified “ELEVATOR EMERGENCY-CALL POLICE”, in letters not less than two inches (51mm) high. The device shall be mounted on the outside of the building near the main entrance and located so that the sign can be read from the entrance sidewalk. Only one outside signal is required if operable from all cars of all elevators of the type specified in the building.

### **3.11.3 Firefighters service**

Elevators with firefighters’ service that are part of a group shall conform to identical firefighters’ service operation requirements regardless of which edition of A17.1 they complied with at the time of installation or alteration.

The Phase I and Phase II switches for all elevators in a building or site shall be operable by the same key.

**4.5.1 (b) *Minimal Liquid Level Indicator*** is deleted.

**4.5.2 (d) *Inspector’s Gage Connection*** is deleted.

**4.5.2 (f) *Handholes and Manholes*** is deleted.

**PART VI DUMBWAITERS** is deleted.

**PART VII HAND ELEVATORS** is deleted.

**PART VIII SIDEWALK ELEVATORS** is deleted.

(Code of Gen. Ords. 1967, § 9.5(2).1; Ord. No. 911125, 4-23-92; Ord. No. 010783, 8-23-01; Ord. No. 040477, § 1, 8-12-04; Ord. No. 071193, § 1, 1-3-08; Ord. No. 120375, § 1, 5-24-12)

**Sec. 18-177—18-192. Reserved.**

**Sec. 18-193. Adoption of American National Standard Safety Requirements for Personnel Hoists.**

The American National Standard Safety requirements for Personnel Hoists, ANSI A10.4-2007, published by American National Standards Institute, is adopted and incorporated in this article by reference as if fully set forth.

(Code of Gen. Ords. 1967, § 9.5(3).1; Ord. No. 52722, 5-8-81; Ord. No. 61386, 8-10-89; Ord. No. 911125, 4-23-93; Ord. No. 010783, 8-23-01; Ord. No. 040477, § 1, 8-12-04; Ord. No. 071193, § 1, 1-3-08; Ord. No. 120375, § 1, 5-24-12)

**Sec. 18-194—18-209. Reserved.**